

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880

DATE: 04/27/1999
 TIME: 18:51:43

Input Set: I232880.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

1 <110> APPLICANT: Xu, Jiangchun
 2 Dillon, Davin C.
 3 Mitcham, Jennifer Lynn
 4 <120> TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
 5 PROSTATE CANCER AND METHODS FOR THEIR USE
 6 <130> FILE REFERENCE: 210121.428C6
 7 <140> CURRENT APPLICATION NUMBER: US/09/232,880
 8 <141> CURRENT FILING DATE: 1999-01-15
 9 <160> NUMBER OF SEQ ID NOS: 338
 10 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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 14 <213> ORGANISM: Homo sapien
 15 <220> FEATURE:
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 18 <223> OTHER INFORMATION: n = A,T,C or G
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 22 ccagggggtc cagtccctct ctttacttca tccccatccc atgccaaagg aagaccctcc 180
 23 ctcccttggtc cacagccttc tcttaggttcc ccagtgcctc caggacagag tgggttatgt 240
 24 tttagctcc atccttgctg tgagtgtctg gtgcgttggt cctccagctt ctgctcagtg 300
 25 cttcatggac agtgtccago acatgtcaact ctccactctc tcagtggttga tccacttagtt 360
 26 cttagagcggc cgccaccgcg gtggagctcc agctttgtt ccctttatgtt agggtaatt 420
 27 ggcgcgttgg cgtaatcatg gtcataactg ttccctgtgt gaaattgtta tccgctcaca 480
 28 attccacaca acatacgagc cggaagcata aagtgtaaag cctgggtgc ctaatgatgt 540
 29 anctaactca cattaattgc gttgcgtca ctgnccgtt tccagtcngg aaaactgtcg 600
 30 tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggttgcg ttttgggggc 660
 31 tcttccgtt ctcgtcaact nantcctgcg ctcgtcncntt cggctgcggg gaacggatatc 720
 32 actcctcaaa ggnngtatta cggttatccn naaatcnggg gataccnngg aaaaaanttt 780
 33 aacaaaaggc cancaaaggc cngaaacgtt aaaa 814
 34 <210> SEQ ID NO 2
 35 <211> LENGTH: 816
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Homo sapien
 38 <220> FEATURE:
 39 <221> NAME/KEY: misc_feature
 40 <222> LOCATION: (1)...(816)
 41 <223> OTHER INFORMATION: n = A,T,C or G
 42 <400> SEQUENCE: 2
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 44 ttcatggctg ttggagcaat agaaccaggc ttctacgagc tgctgatcaa aggacttgg 120

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PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880

DATE: 04/27/1999
 TIME: 18:51:43

Input Set: I232880.RAW

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47	acagatgcct gtgtactcc ggttctgact tttgaggagg ttgttcatca tgatcacaa	300
48	aaggaacggg gctcggttat caccagttag gagcaggacg tgagccccg ccctgcac	360
49	ctgctgttaa acaccccagc catcccttct ttcaaaaggg atccactgt tctagaagcg	420
50	gccgccaccg cggtggagct ccagctttg ttccctttag tgagggttaa ttgcgcgc	480
51	ggcgtaatca tggtcatacg tggccctgt gtggaaattgt tatccgccta caattcccc	540
52	aacatacggc ccggAACATA aagtgttaag cttgggggtgc ctaatgantg agctaact	600
53	cattaattgc gttgcgtca ctggccgtt tccagtcggg aaaactgtcg tgccactgn	660
54	ttantgaatc ngccaccccc cggggaaaagg cggttgc nt ttggcccttcc tccgc	720
55	tcgctcatttgc atccctngcnc ccgggttgc gtcgcggng aacggttca cctcaaaggc	780
56	ggtntrccgg ttatccccaa acnngggata cccnnga	816
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68	tcctcaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaaatgt ttgacacc	180
69	tctgccttcg tcttcttgc aaatacatct gcaaaacttct tcttcatttc tggccaaatca	240
70	tccatgctca tctgattggg aagttcatca gactttagtc canntccctt gatcagc	300
71	tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tggccctgt	360
72	gtcgataga aagggtgtcc accatccaac atgttctgtc ctcgaggggg ggcccggtac	420
73	ccaattcgcc ctatantgag tcgtattacg cgcgtcaact ggccgtcg ttacaacgtc	480
74	gtgactggaa aaaccctggg cgttaccaac ttaatcgct tgcagcacat cccccc	540
75	ccagctgggc gtaatancga aaaggcccc accgatcgcc cttccaaacag ttgcgcac	600
76	gaatgggnaa atgggacccc cctgttaccc cgcattnaac cccgcnggg ttngttgtt	660
77	accccccacnt nnaccgctta cactttgcca ggccttanc gcccgc	720
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85	<222> LOCATION: (1)...(828)	
86	<223> OTHER INFORMATION: n = A,T,C or G	
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90	tcggaaact ggctgtctt gaagacttct cgctcgtttt cagtggggac acacacaa	180
91	acgtgggtga ccatgttgc tgggggtgc agagatggg ggggtggggc ccaccctg	240
92	agagtggaca gtgacacaag gtggacactc tctacagatc actggggata agctggag	300
93	acaatgcacatg aggacacac acagcaagga tgcacntgtaa aacatagccc acgtgtc	360
94	gngggcactg ggaagcctan atnaggccgt ggcacanaaag aaggggagga tccactag	420

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880

DATE: 04/27/1999
 TIME: 18:51:43

Input Set: I232880.RAW

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W--> 97	attccacaca acatacganc cggaaacata aantgtaaac ctgggtgcc taatgantga	600
W--> 98	ctaactcaca ttaattgcgt tgccgtcaact gcccgttcc caatcngaa acctgtctg	660
W--> 99	ccncttgcatt natgaatcn gccaaccccc gggaaaaggc gtttgcgttt tggcgctct	720
W--> 100	tccgcttcct cnctcantta ntccctncnc tcggtcattc cggctgcngc aaaccggttc	780
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108 <222>	LOCATION: (1)...(834)	
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113	attttataac aatcaacacc tgtggcttt aaaatttggt tttcataaga taatttatac	180
114	tgaagtaaat cttagccatgc tttaaaaaa tgcttttaggt cactccaagc ttggcagtta	240
115	acatttggca taaaacaataa taaaacaatc acaatttaat aaataacaaa tacaacatgt	300
116	taggccataa tcatatacag tataaggaaa agtgtggtagt gttgagtaag cagttattag	360
117	aatagaatac cttggcctct atgcaaataat gtctagacac tttgattcac tcagccctga	420
118	cattcagtt tcaaagttagg agacaggttc tacagtatca ttttacagtt tccaacacat	480
119	tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta	540
120	tcaccaaccc ctcagttata aaaaatttc aagttatatt agtcatataa cttgggtgtgc	600
121	ttatTTTaaa tttagtctaa atggattaag tgaagacaac aatggcccc taatgtgatt	660
122	gatattggtc attttacca gtttctaaat ctnaactttc aggTTTGA actggAACAT	720
123	tgnatnacag tggccanag ttncaaccta ctggAACATT acagtgtgct tgattcaaaa	780
124	tgttattttg taaaaattaa aatttaacc tggtgaaaaa ataatttggaa atna	834
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127 <212>	TYPE: DNA	
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131 <222>	LOCATION: (1)...(818)	
132 <223>	OTHER INFORMATION: n = A,T,C or G	
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136	tgtAAAGTGA aatatttagtt ggCGGATGAA gcagatAGTG agggAAAGTTG agCCAATAAT	180
137	gacgtgaagt ccgtggaaAGC ctgtggctac aaaaaatgtt gagccgtAGA tgccgtcgGA	240
138	aatggTGAAG ggAGACTCGA agtactCTGA ggCTTGTAGG agggTAAAT agAGACCCAG	300
139	taaaattgtA ataAGCAGTg CTTGAATTAT ttggTTTCGG ttgtTTCTA ttAGACTATG	360
140	gtgagCTCAG gtGATTGATA CTCCTGATGC gagtaatacG gatgtttTA ggAGTGGGAC	420
141	ttctAGGGGA tttagcGGGG tgatgcTTGT tgGGGGCCAG tgccCTCCTA gttGGGGGGT	480
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PAGE : 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880

DATE: 04/27/1999
TIME: 18:51:43

Input Set: I232880.RAW

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159	ggtttgcctt acagattca gaggatttac cgttgtatac ccccggtcgt ttagcgggtga	180	
160	aagtggttt gtttagacgt ccggaaattt catctgttt taagcctaatt gtggggacag	240	
W-->	161	ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatggggct tcaatcggtt	300
162	gtactactcg attgtcaacg tcaaggagtc gcagggtcgcc tgggtctagg aataatgggg	360	
163	gaagtatgtt ggaattgaag attaatccgc cgttgtcggt gttctccatgtt gttcaatacc	420	
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W-->	165	aggatncctt nggatggga aggcnatnaa ggactangga tnaatggcg gcangatatt	540
W-->	166	tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan ttngtttatt	600
W-->	167	gaatntnnng gaaaaggct tacaggacta gaaaccaat angaaaanta atntaangg	660
W-->	168	cnttatcntn aaaggtnata accncttcata tnatcccacc caatngnatt ccccacncnn	720
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178	<223> OTHER INFORMATION: n = A,T,C or G		
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181	cataaggaga actttctgtt ggcacgcgtt agggacaagc gggagagcga ctccgagcgt	120	
182	ctgaagcgtca cgtcccgatgg ggtggacttg gcactgaaac agctgggaca catccgcgag	180	
183	tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agttagccg cgttctgggg	240	
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W-->	187	tctttgangt gagccccatg tccatctggg ccactgtcng gaccacccccc nggagtggtt	480
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194	<210> SEQ ID NO 9		

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880

DATE: 04/27/1999
 TIME: 18:51:43

Input Set: I232880.RAW

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201	<223> OTHER INFORMATION: n = A,T,C or G	
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205	caaggacaag gcoaccaggc gcggggcccg aagccccat gatcctact ctatgagcaa	180
W--> 206	aatccccctgt gggggcttct cttgaagtc cgccancagg gtcagtctt tggacccang	240
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224	<223> OTHER INFORMATION: n = A,T,C or G	
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228	agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggtg tccctgcca	180
229	aataccgagg ggacacttgg ggtcttagca gtgaggacag cctgtatgacc agtttctgc	240
230	caggccctaa gcctggagct ccctcccta atggacacgt ggggtcttgg ggcagtggcc	300
231	tgctcccacc tccaccccgcg ctctgcggg cctctgcctg tcatgtctcc gtacgtgtgg	360
232	tgggtggta gcccacccgan gccaggggtgg ttccggcccg gggcatctgc ctggacctcg	420
W--> 233	ccatccttggaa tagtgccttc tgctgtccca ngtggccca tccctgttta tgggtccat	480
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W--> 235	cccatttact ttgttacaca ggtantattt gacaagaacg anttggccaa atactcagcg	600
236	ttaaaaaattt ccagcaacat tgggggttgg aaggcctgcct cactggtcc aactccccgc	660
W--> 237	tcctgttaac cccatggggc tgccggcttgc gccgccaatt tctgttgc tccaaantnat	720
W--> 238	gtggctctct gctgccacct gttgttggct gaagtgcnta cngcncanct ngggggttng	780
W--> 239	ggngttccc	789
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241	<211> LENGTH: 772	
242	<212> TYPE: DNA	
243	<213> ORGANISM: Homo sapien	
244	<220> FEATURE:	

Please Note:
 Use of n and/or Xxx have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xxx.

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880DATE: 04/27/1999
TIME: 18:51:43

Input Set: I232880.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

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2	<211> 820	
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4	<213> Homo sapien	
5	<220>	
6	<221> misc_feature	
7	<222> (1)...(820)	
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11	cccanagata ncttatanca acagtgcctt gaccaagagc tgctgggcac atttcctgca	120
12	aaaaaggtagg cggtccccat cactccctc ctcccatagc catccagag gggtagttag	180
13	ccatcangcc ttccggggaa gggagtcang gaaacaacan accacagagc anacagacca	240
14	ntgatgacca tggcgggag cgagccctt ccctgnaccg gggtagcana nganagccta	300
15	nctgaggggt cacactataa acgttaacga ccnagatnan cacctgcttc aagtgcaccc	360
16	tccctacctg acnaccagng accnnnaact gcngcctgg gacagnctg ggancagcta	420
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21	ganattccac tnncgcctnc cntcnatcng naanacnaaa nactntctna cccnngggat	720
22	gggnncctcg ntcatcctct cttttcnct accnccnntt ctttgccctc cctngatca	780
23	tccaaacctc gntggccntn cccccccnnn tcctttnccc	820

6. Bansal

1635

CRF Entry's Corrected by the STIC System Branch

4/22/99

Serial Number: 09/232,880

Crf Processing Date: _____
Edited by: _____
Verified by: _____ (STIC staff)

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically:

- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____
- Added the mandatory heading and subheadings for "Current Application Data". **ENTERED**
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included:

- Deleted extra, invalid, headings used by an applicant, specifically:

- Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____
- Inserted mandatory headings, specifically:

- Corrected an obvious error in the response, specifically:

- Edited identifiers where upper case is used but lower case is required, or vice versa.
- Corrected an error in the Number of Sequences field, specifically:

- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

- Other: fig 2b - essential last return after cumulative base total 780'

- _____

NPA

1635

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/232,880

DATE: 04/22/1999
 TIME: 11:25:21

Input Set: I232880.RAW

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Does Not Comply
Corrected Diskette Needed

```

1 <110> Xu, Jiangchun
2 Dillon, Davin C.
3 Mitcham, Jennifer Lynn
4 <120> COMPOUNDS FOR IMMUNODIAGNOSIS OF
5 PROSTATE CANCER AND METHODS FOR THEIR USE
6 <130> 210121.428C6
7 <140> US/09/232,880
8 <141> 1999-01-15
9 <160> 338
10 <170> FastSEQ for Windows Version 3.0

```

ERRORED SEQUENCES FOLLOW

```

11 <210> 26
12 <211> 820
13 <212> DNA
14 <213> Homo sapien
15 <220>
16 <221> misc_feature
17 <222> (1)...(820)
18 <223> n = A,T,C or G
19 <400> 26
W--> 20 anattantac agtgtaatct tttccagag gtgtgtanag ggaacggggc ctagaggcat 60
W--> 21 cccanagata ncttatanca acagtgcctt gaccaagagc tgctggcac atttcctgca 120
      22 gaaaagggtgg cggtccccat cactcctcct ctcccatacg catcccagag gggtagttag 180
W--> 23 ccatcangcc ttccggggaa gggagtcang gaaacaacan accacagagc anacagacca 240
W--> 24 ntgatgacca tggggggag cgagcctctt ccctgnaccg gggtagcana nganagccct 300
W--> 25 nctgagggtt cacactataa acgttaacga ccnagatnan cacctgcctt aagtgcaccc 360
W--> 26 ttcctacctg acnaccagng accnnnaact gcngcctggg gacagcnctg ggancagcta 420
W--> 27 acnnagcact cacctgcccc cccatggccg tnccntccc tggccctgnc aagggaaagct 480
W--> 28 ccctgttggaa attncggggaa naccaaggga ncccccctcc ccanctgtga aggaaaaann 540
W--> 29 gatggaattt tncccttccg gccnnntcccc tcttccttta cacgccccctt nntactcnct 600
W--> 30 tccctctntt ntccctgnncncc acttttnacc ccnnnatttc ccttnattga tcggannctn 660
W--> 31 ganattccac tnnccctncc cncnatcng naanacnaaa nactntctna cccngggat 720
E--> 32 gggnnccctcg ntccatcctct cttttcnct accnccnntt cttgcctct ccttngatca 780tcca

```

hard return ↑

Input Set: I232880.RAW

Line	? Error/Warning	Original Text
20	W "N" or "Xaa" used: Feature required	anattantac agtgtaatct tttcccgag gtgtgtan
21	W "N" or "Xaa" used: Feature required	cccanagata ncttatanca acagtgcctt gaccaaga
23	W "N" or "Xaa" used: Feature required	ccatcangcc ttccgggtggga gggagtcang gaaacaac
24	W "N" or "Xaa" used: Feature required	ntgatgacca tgggcgggag cgagcctctt ccctgnac
25	W "N" or "Xaa" used: Feature required	nctgagggtcacactataa acgttaacga ccnagatn
26	W "N" or "Xaa" used: Feature required	ttccttacctg acnaccagng accnnnaact gcngcctg
27	W "N" or "Xaa" used: Feature required	acnnagcact cacctgcctt cccatggccg tnccgcntc
28	W "N" or "Xaa" used: Feature required	ccctgttgaa attncgggga naccaaggga nccccctc
29	W "N" or "Xaa" used: Feature required	gatggaattt tncccttccg gcccnnntcccc tcttcctt
30	W "N" or "Xaa" used: Feature required	tccctctttt ntccctgnncncc acttttnacc ccnnnatt
31	W "N" or "Xaa" used: Feature required	ganattccac tnncgcctnc cncatcnng naanacna
32	E Number of Bases conflict w/ Running Total	gggnncctcg ntcatccctt cttttcnct accnccnn
32	E Wrong Nucleic Acid Designator	gggnncctcg ntcatccctt cttttcnct accnccnn
32	E Wrong Nucleic Acid Designator	gggnncctcg ntcatccctt cttttcnct accnccnn
32	E Wrong Nucleic Acid Designator	gggnncctcg ntcatccctt cttttcnct accnccnn
32	W "N" or "Xaa" used: Feature required	gggnncctcg ntcatccctt cttttcnct accnccnn